

Applied Coastal

RESEARCH AND ENGINEERING, INC.

766 Falmouth Road, Suite A-1
Mashpee, MA 02649
Tel: (508) 539-3737
Fax: (508) 539-3739
www.appliedcoastal.com

March 20, 2003

Mr. Barry S. Drucker
Contracting Officer's Technical Representative
U.S. Department of the Interior
Minerals Management Service
Leasing Division, Sand and Gravel Unit
381 Elden Street, Mail Stop 4010
Herndon, Virginia 20170

Subject: Progress Report for Contract # 1435-01-01-CT-31118

Project Title: Environmental Surveys of Potential Borrow Areas Offshore Northern New Jersey and Southern New York and the Environmental Implications of Sand Removal for Coastal and Beach Restoration

Dear Mr. Drucker:

This letter serves as Progress Report 9 for Contract No. 1435-01-01-CT-31118, *Environmental Surveys of Potential Borrow Areas Offshore Northern New Jersey and Southern New York and the Environmental Implications of Sand Removal for Coastal and Beach Restoration*. The contract award date was February 13, 2001. This report covers the period August 15, 2002 to March 15, 2003.

1. Work Accomplished: Analysis of data collected during Biological Surveys 1 and 2 is complete. Wave-hindcast modeling is complete, and analysis of the results has been initiated for use with wave transformation and sediment transport modeling. Quantitative evaluation of historical shoreline and bathymetry data sets continues. The project web site has been updated as new information becomes available. The web site address is http://www.oceanscience.net/mms_nj_ny.

Task 1a. Field Data Collection (Fall): Task completed.

Task 1b. Field Data Collection (Spring): Task completed.

Task 1c. Field Data Analysis, Historical Data Analysis, and Wave Modeling: Data collected during Biological Surveys 1 and 2 have been analyzed. Wave hindcast simulations (20-yr record), saved at five locations throughout the study area, have been completed by OCTI and are being summarized and evaluated for use as input for wave transformation and sediment transport numerical modeling by Applied Coastal personnel. Historical shoreline and bathymetry data sets throughout the study area have been compiled, and analysis of spatial changes in sediment transport patterns continues.

Task 2. Coordination with NJGS/USACE-NY/USGS-Woods Hole and Collection of Relevant Data: Geological information provided by the USGS, USACE-NY, and the NJGS are being used for report preparation.

Task 3. Draft and Final Technical Report: The Draft Technical Report is expected to be completed in August 2003.

Task 4. Draft and Final Technical Summary: This task will commence after the Final Technical Report has been reviewed by MMS personnel.

Task 5. Draft and Final Non-Technical Summary: This task will commence after the Final Technical Report has been reviewed by MMS personnel.

Task 6. Draft and Final Scientific Manuscript: This task will commence after the Final Technical Report is completed.

Task 7. Presentation at Scientific/Technical Conference: This task will commence after the Final Technical Report is completed.

Task 8. Bi-Monthly Progress Reports: This progress report represents 9 of 13 over the lifetime of the project.

Task 9. Presentation Slide Set: Photographs were taken during Biological Surveys 1 and 2. This task will be completed after the Final Technical Report is produced.

Task 10. Meetings: No meetings were conducted.

Task 11. Program Management and Control Requirements: Close communication continues between the Contracting Officer's Technical Representative from MMS and the Project Manager from Applied Coastal. Frequent contact among Applied Coastal, CSA, and BVA personnel enhanced project implementation.

Task 12. Data Management: All data collection and analyses, and numerical modeling efforts, follow the highest quality control and assurance standards to ensure data quality and proper analysis procedures.

Task 13. Spatial Data Files: Spatial data files obtained as part of this program will be submitted to the MMS upon completion of the project.

2. **Significant Problems:** No significant problems were identified. Adjustments to the project schedule have been made to reflect realistic completion dates (see attachment below).
3. **Major Technical Findings:** None.
4. **Major Activities for Next Two Months:** Wave transformation and sediment transport numerical modeling tasks will continue. Historical shoreline and bathymetry data sets will continue to be evaluated. Draft final report preparation will continue.

5. Questions or Problems: No questions or problems have been identified.

If you have any questions concerning this Progress Report, please contact me at 508-539-3737 (voice), 508-539-3739 (fax), or via e-mail at mbyrnes@appliedcoastal.com.

Sincerely,

A handwritten signature in dark ink, appearing to read "Mark". The signature is fluid and cursive, with a large initial "M" and a trailing "k".

Mark R. Byrnes, Ph.D.
Project Manager

Deliverable Event

2002

A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
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